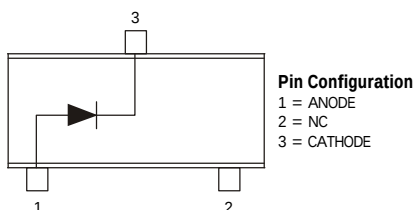
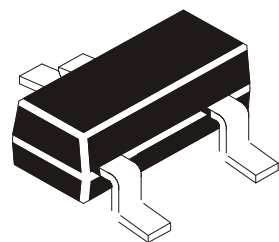


SILICON PLANAR ZENER DIODES



**CMBZ 5258B
to
CMBZ 5261B
SOT-23**

General Purpose Zener Diode

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Power Dissipation up to Tamb=25 deg C*	Ptot	300	mW
Power Dissipation up to Tamb=25 deg C**	Ptot	225	mW
Junction Temperature	TJ	150	deg C
Storage Temperature	Tstg	-55-150	deg C

THERMAL RESISTANCE

From Junction to Ambient	Rth (j-a)	417	deg C/W
From Junction to Ambient	Rth (j-a)	556	deg C/W

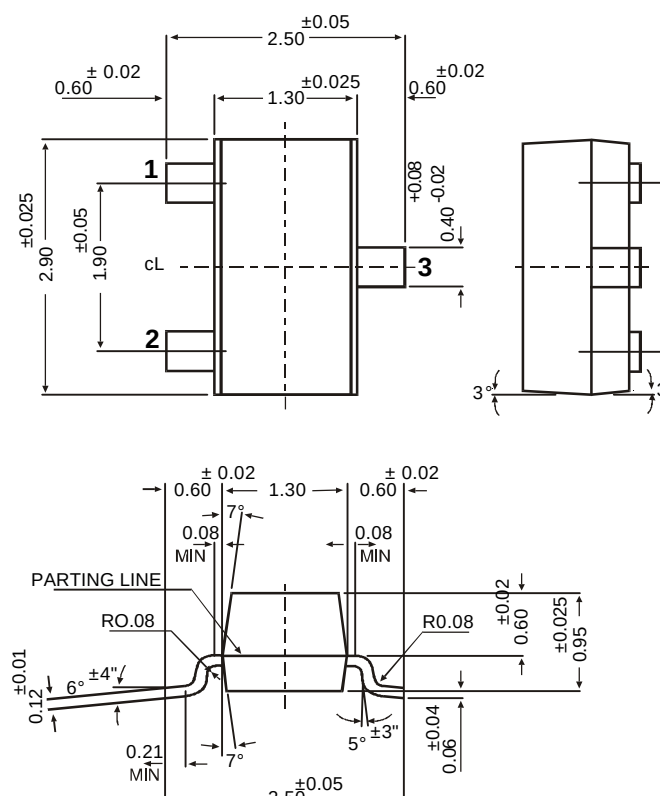
*Device mounted on a ceramic alumina of 8 mm x 10mm x 0.7 mm

**Device mounted on an FR5 printed circuit board

ELECTRICAL CHARACTERISTICS (Tamb=25 deg C) VF < 0.9V @ 10mA

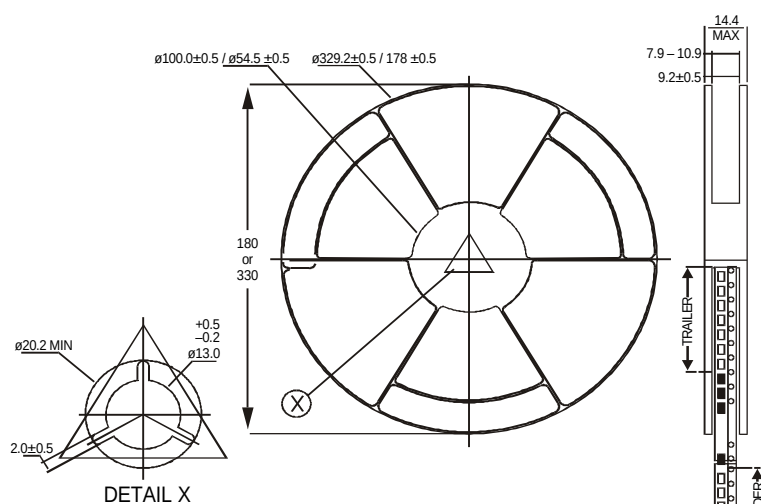
Device	Zener Voltage VZ(+5%) Nominal (V)	Test Current IZT (mA)	Zzk IZ=0.25 mA ohm (max)	Zzt IZ=IZT @10% mod (ohm) (max)	IR max (uA)	VR (V)	MARKING
CMBZ5258B	36	3.4	700	70	0.1	27	81J
CMBZ5259B	39	3.2	800	80	0.1	30	81K
CMBZ5260B	43	3.0	800	93	0.1	33	81L
CMBZ5261B	47	2.7	1000	105	0.1	36	81M

SOT-23 Formed SMD Package



SOT-23 Package Reel Information

Reel specifications for W" Packing (13" reel)

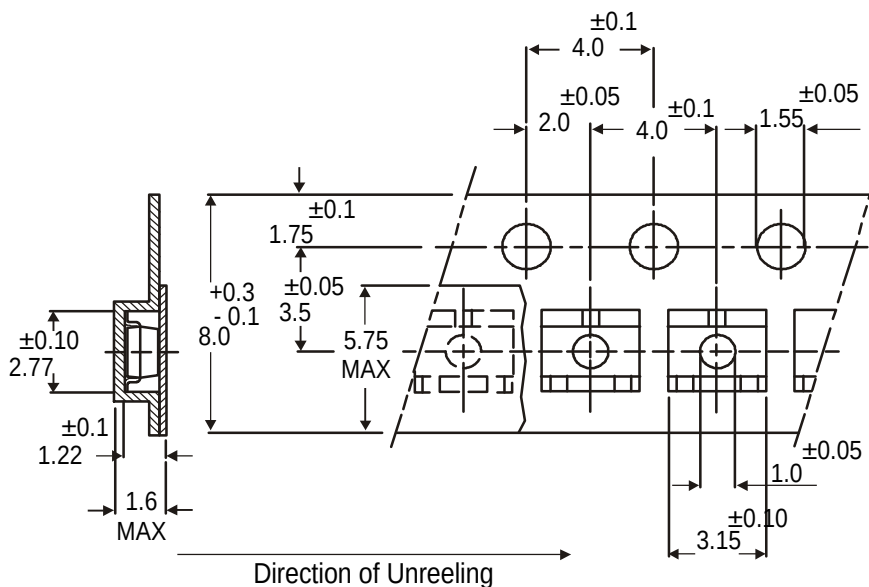


All dimensions in mm
330 / 180 mm – Antistatic Coated Plastic Reel

NOTES:

- | No. of Devices | 8mm Tape
Size of Reel
330 mm (13")
10,000 Pcs | 8mm Tape
Size of Reel
180 mm (7")
3,000 Pcs |
|----------------|--|--|
| 1. | The bandolier of 330 mm reel contains at least 10,000 devices. | |
| 2. | The bandolier of 180 mm reel contains at least 3,000 devices. | |
| 3. | No more than 0.5% missing devices / reel. 50 empty compartments for 330 mm reel. 15 empty compartments for 180 mm reel. | |
| 4. | Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices. | |
| 5. | The carrier tape (leader) starts with at least 75 empty positions (equivalent to 330 mm). In order to fix the carrier tape a self adhesive tape of 20 to 50 mm is applied. At the end of the bandolier at least 40 empty positions (equivalent to 160 mm) are there. | |

Tape Specification for SOT-23 Surface Mount Device



All dimensions in mm

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOT-23 T&R	3K/reel	136 gm/3K pcs	3" x 7.5" x 7.5"	12.0K	17" x 15" x 13.5"	192.0K	12 kgs
	10K/reel	415 gm/10K pcs	9" x 9" x 9"	51.0K	19" x 19" x 19"	408.0K	28 kgs
			13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	16 kgs

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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